

TABLE I

|    | T          |                  |
|----|------------|------------------|
|    | CONTROLLER | CODE VALUE RANGE |
| ΔR | 0-100      | +50 -> +50       |
| ΔG | 0-100      | +50 -> +50.      |
| ΔB | 0-100      | -50 -> +50       |
| ΔL | 0-100      | -50->+50         |
| G  | 0-100      | 20> 150          |
| С  | 0-100      | 0 -> 2           |

Fig. 2

#### TABLE II

$$\begin{bmatrix} R' \\ G' \end{bmatrix} = \begin{bmatrix} .3086(1-c)+c & .6094(1-c) & .082(1-c) \\ .3086(1-c) & .6094(1-c)+c & .082(1-c) \\ .3086(1-c) & .6094(1-c) & .082(1-c)+c \\ B' \end{bmatrix}$$

$$\underbrace{ \begin{bmatrix} R' \\ .3086(1-c) \\ .3086(1-c) \end{bmatrix}}_{FS} = \begin{bmatrix} .3086(1-c)+c & .6094(1-c) & .082(1-c) \\ .6094(1-c) & .082(1-c)+c \\ B \end{bmatrix}}_{FS}$$

# TABLE III

OUTPUT = 
$$\frac{255}{4} \left( (1 + TANH[(INPUT + \Delta L - 128 - G + \Delta R)/G]) + (1 + TANH[(INPUT + \Delta L - 128 + G + \Delta R)/G]) + Fig. 4$$

#### TABLE IV

$$\left(\frac{255}{4}\right) \left(\frac{(1+TANH[((JNPUT-128)+\beta(JNPUT-128)^{3}+\Delta L-G+\Delta R)/G])+}{(1+TANH[((JNPUT-128)+\beta(JNPUT-128)^{3}+\Delta L+G+\Delta R)/G])} + \frac{255}{4} \left(\frac{255}{4}\right) \left(\frac{255}{4}\right)$$

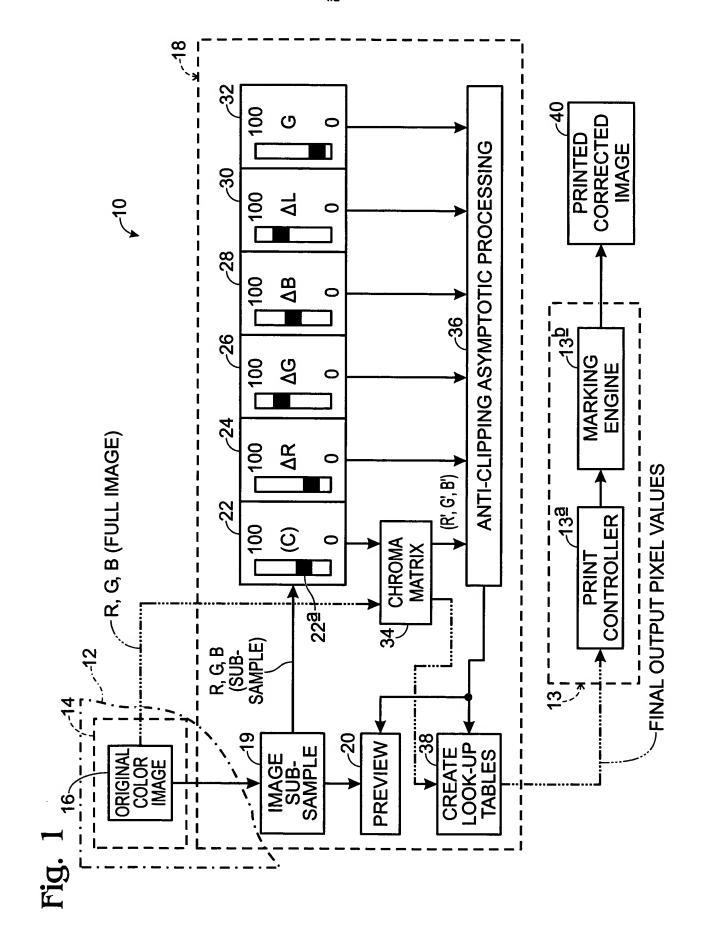


Fig. 2

TABLE I

|    | CONTROLLER<br>RANGE | CODE VALUE<br>RANGE  |
|----|---------------------|----------------------|
| ΔR | 0-100               | -50 <del>→</del> +50 |
| ΔG | 0-100               | -50 <del>→</del> +50 |
| ΔΒ | 0-100               | -50 <del>→</del> +50 |
| ΔL | 0-100               | -50 <del>→</del> +50 |
| G  | 0-100               | 20 → 150             |
| С  | 0-100               | 0 -> 2               |

### Fig. 3

TABLE 
$${\bf I}$$

$$\begin{pmatrix} \mathsf{R'} \\ \mathsf{G'} \\ \mathsf{B'} \end{pmatrix} = \begin{pmatrix} .3086 \ (1\text{-C}) + \mathsf{C} & .6094 \ (1\text{-C}) & .082 \ (1\text{-C}) \\ .3086 \ (1\text{-C}) & .6094 \ (1\text{-C}) + \mathsf{C} & .082 \ (1\text{-C}) \\ .3086 \ (1\text{-C}) & .6094 \ (1\text{-C}) & .082 \ (1\text{-C}) + \mathsf{C} \end{pmatrix} \begin{pmatrix} \mathsf{R} \\ \mathsf{G} \\ \mathsf{B} \end{pmatrix}$$

### Fig. 4

### TABLE III

OUTPUT = 
$$\frac{255}{4}$$
  $\left( (1 + TANH [(INPUT + \Delta L-128-G + \Delta R)/G]) + (1 + TANH [(INPUT + \Delta L-128+G + \Delta R)/G]) \right)$ 

## Fig. 5

#### TABLE IV

$$\left( \frac{255}{4} \right) \left( (1 + TANH [((INPUT-128) + \beta(INPUT-128)^3 + \Delta L - G + \Delta R)/G]) + (1 + TANH [((INPUT-128) + \beta(INPUT-128)^3 + \Delta L + G + \Delta R)/G]) \right)$$